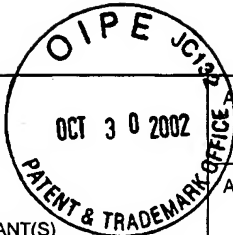


FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

DATE SUBMITTED TO PTO:

October 28, 2002



ATTY DOCKET NO.

PD-980174A

APPLICATION NO.

10/023,509

APPLICANT

Eroz et al.

FILING DATE

Dec. 18, 2001

GROUP

2133

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SLB	1	5,687,095	11-Nov-97	Haskell et al.	348	386.1	1-Nov-94
SLB	2	5,721,745	24-Feb-98	Hladik et al.	714	755	19-Apr-96
SLB	3	5,742,612	21-Apr-98	Gourgue et al.	714	701	1-Jun-94
SLB	4	5,944,850	31-Aug-99	Chouly et al.	714	790	9-Dec-97
SLB	5	5,978,414	2-Nov-99	Nara	375	225	3-Jul-96
SLB	6	5,983,384	9-Nov-99	Ross	714	755	21-Apr-97
SLB	7	5,996,104	30-Nov-99	Herzberg	714	755	5-Sep-97
SLB	8	6,023,783	8-Feb-00	Divsalar et al.	714	792	15-May-97
SLB	9	6,088,387	11-Jul-00	Gelblum et al.	375	222	31-Dec-97
SLB	10	6,094,427	25-Jul-00	Yi	370	331	20-Aug-99
SLB	11	6,289,486 B1	11-Sep-01	Lee et al.	714	788	30-Jul-98

FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS
SLB	12	0300139 A2 & A3	25-Jan-89	EPO			
SLB	13	WO 96/37050 A1	21-Nov-96	PCT			
SLB	14	DE 19520987 A1	12-Dec-96	Germany			YES
SLB	15	WO 98/48517 A1	29-Oct-98	PCT			
SLB	16	DE 19736653 C1	10-Dec-98	Germany			YES

OTHER DOCUMENT(S)

*EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
SLB	17	Berrou et al., Near Shannon Limit Error - Correcting Code and Decoding: Turbo Codes, 23-May-1993, Pp 1064-1070.
SLB	18	Maric, Class of Algebraically Constructed Permutations for Use in Pseudorandom Interleavers, Electronics Letters, Vol. 30, No. 17, 18-Aug-1994, Pp 1378-1379.
SLB	19	Barbulescu et al., "Rate Compatible Turbo Codes," Electronics Letters, Vol. 31, No. 7, 30-Mar-1995, Pp 535-536.
SLB	20	Divsalar et al., "Turbo Codes for PCS Applications," 18-Jun-1995, Pp 54-59.
SLB	21	Divsalar et al., "Multiple Turbo Codes," IEEE Proceedings of the Military Communications Conference, San Diego, CA, Vol. 1, 6-Nov-1995, Pp 279-285.

EXAMINER

Stephen M. Baker

DATE CONSIDERED

5/16/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

DATE SUBMITTED TO PTO:

October 28, 2002



ATTY DOCKET NO.

PD-980174A

APPLICATION NO.

10/023,509

APPLICANT

Eroz et al.

FILING DATE

Dec. 18, 2001

GROUP

2133

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SHB	22	6,334,197 B1	25-Dec-01	Eroz et al.	714	701	16-Aug-99
SHB	23	6,370,669 B1	9-Apr-02	Eroz et al.	714	774	11-Feb-99
SHB	24	6,430,722 B1	6-Aug-02	Eroz et al.	714	755	22-Jan-99
SHB	25	2002/0087923 A1	4-Jul-02	Eroz et al.	714	702	19-Dec-01

FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS
SHB	26	WO 99/07076 A2	11-Feb-99	PCT			

OTHER DOCUMENT(S)

*EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
SHB	27	Benedetto et al., "Unveiling Turbo Codes: Some Results on Parallel Concatenated Coding Schemes," IEEE Transactions on Information Theory, Vol. 4, No. 2, 1-Mar-1996, Pp 409-428.
SHB	28	Benedetto et al., "Design of Parallel Concatenated Convolutional Codes," IEEE Transactions on Communications, Vol. 44, No. 5, 1-May-96, Pp 591-600.
SHB	29	Rowitch et al., "Rate Compatible Punctured Turbo (RCPT) Codes in a Hybrid FEC/ARQ System," 1997 IEEE Global Telecommunications Mini-Conference, Vol. 4, 1997, Pp 55-59.
SHB	30	Chan et al., "An Adaptive Hybrid FEC/ARQ Protocol Using Turbo Codes," 1997 IEEE 6th Int'l Conf. on Universal Personal Communications, Oct-1997, Pp 541-545.
SHB	31	Lee et al., "Turbo Code and Its Performance," TIA TR45.5.4, 8-Dec-97.
SHB	32	Reidel, "Symbol-by-Symbol MAP Decoding Algorithm for High-Rate Convolutional Codes That Use Reciprocal Dual Codes," IEEE Journal on Selected Areas in Communications, Vol. 16, No. 2, 1-Feb-1998, Pp 175-185.
SHB	33	Eroz et al., "RTT Text for Turbo Codes," ETSI SMG2UMTS-L1, Oslo, Norway, 1-Apr-98.
SHB	34	Eroz et al., "FER and BER Comparisons of Turbo versus Convolutional Codes," ETSI SMG2UMTS-L1, Paris, France, 28-Apr-1998.
SHB	35	Acikel et al., "High Rate Turbo Codes for BPSK/QPSK Channels," ICC '98 1998 IEEE Int'l Conf. on Communications, 7-Jun-1998, Vol. 1, Pp 422-427.
SHB	36	Lee et al., "Third Generation Wireless Technologies - Expectations and Realities," 9 th IEEE International Symposium on Personal Indoor and Mobile Radio Communications, Boston, MA, 8-Sep-1998, Vol. 1, Pp 79-83.
SHB	37	Ho et al., "Improving the Constituent Codes of Turbo Encoders," IEEE Globecom 1998, The Bridge to Global Integration, Sydney, Vol. 6, 8-Nov-1998, Pp 3525-3529.

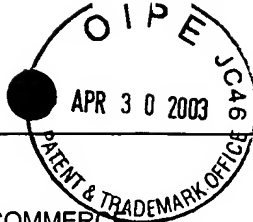
EXAMINER

Stephen H. Baker

DATE CONSIDERED

5/16/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) DATE SUBMITTED TO PTO: <u>April 28, 2003</u>				ATTY DOCKET NO. PD-980174A		APPLICATION NO. 10/023,509	
				APPLICANT Eroz et al.			
				FILING DATE December 18, 2001		GROUP 2133	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SHB	1	2002/0166093 A1	7-Nov-02	Eroz et al.	714	755	3-Jan-02
SHB	2	2003/0041297 A1	27-Feb-03	Eroz et al.	714	755	28-May-02
SHB	3	2003/0051205 A1	13-Mar-03	Eroz et al.	714	792	28-May-02
					RECEIVED		
					MAY 01 2003		
					Technology Center 2100		
FOREIGN PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS
OTHER DOCUMENT(S)							
*EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.					
EXAMINER <u>Stephen M. Baker</u>				DATE CONSIDERED <u>5/16/03</u>			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.